

L Number	Hits	Search Text	DB	Time stamp
1	284	(distribut\$3 and schedul\$3).ti.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/04 10:58
2	27	(distribut\$3 and schedul\$3).ti.	USPAT	2002/10/04 10:59
3	24	4969092.URPN.	USPAT	2002/10/04 13:42
4	0	6182110.URPN.	USPAT	2002/10/04 14:37
5	25	("4969092"   "5031089"   "5155837"   "5185860"   "5261044"   "5282270"   "5325526"   "5325527"   "5408618"   "5414845"   "5440681"   "5524253"   "5596723"   "5651006"   "5666481"   "5675741"   "5678042"   "5692128"   "5710885"   "5737498"   "5742829"   "5758165"   "5832503"   "5872928"   "5931911").PN.	USPAT	2002/10/04 13:13
6	50	("6046817" "6208661" "6370144" "6389031" "5574784" "4969092" "4965716" "6014760" "4918652" "5787162" "5748890" "5916309" "5513994" "5694548" "5533020" "5844890" "5850399" "6028843" "6006266" "6345291" "5289523" "6292830" "6021425" "6272517" "6105053" "5752031" "6101497" "6094510" "5581703" "5701465" "5765038" "6065062" "6076110" "6098093" "6167537" "6160843" "6298371" "5796955" "6134516" "5488703" "5878225" "6117079" "6388687" "6075769" "6023507" "6058424" "6085244" "6141677" "5680548" "5887141").pn.	USPAT	2002/10/04 13:42

7	14	((US-5581764-\$ or US-6292889-\$ or US-6105053-\$ or US-4642758-\$ or US-6453438-\$ or US-6105067-\$ or US-6182110-\$ or US-6061807-\$ or US-5887141-\$ or US-5742829-\$ or US-5737498-\$ or US-5710885-\$ or US-5325526-\$ or US-5414845-\$).did.	USPAT	2002/10/04 14:37
8	3	((US-5581764-\$ or US-6292889-\$ or US-6105053-\$ or US-4642758-\$ or US-6453438-\$ or US-6105067-\$ or US-6182110-\$ or US-6061807-\$ or US-5887141-\$ or US-5742829-\$ or US-5737498-\$ or US-5710885-\$ or US-5325526-\$ or US-5414845-\$).did.) and schedul\$3 and (session thread) and priority	USPAT	2002/10/04 14:41
9	3	((US-5581764-\$ or US-6292889-\$ or US-6105053-\$ or US-4642758-\$ or US-6453438-\$ or US-6105067-\$ or US-6182110-\$ or US-6061807-\$ or US-5887141-\$ or US-5742829-\$ or US-5737498-\$ or US-5710885-\$ or US-5325526-\$ or US-5414845-\$).did.) and schedul\$3 and (session thread) and priority and (job event task process)	USPAT	2002/10/04 14:46
10	16	((US-5581764-\$ or US-6292889-\$ or US-6105053-\$ or US-4642758-\$ or US-6453438-\$ or US-6105067-\$ or US-6182110-\$ or US-6061807-\$ or US-5887141-\$ or US-5742829-\$ or US-5737498-\$ or US-5710885-\$ or US-5325526-\$ or US-5414845-\$ or US-6021425-\$ or US-6014760-\$).did.	USPAT	2002/10/04 17:11
11	4	((US-5581764-\$ or US-6292889-\$ or US-6105053-\$ or US-4642758-\$ or US-6453438-\$ or US-6105067-\$ or US-6182110-\$ or US-6061807-\$ or US-5887141-\$ or US-5742829-\$ or US-5737498-\$ or US-5710885-\$ or US-5325526-\$ or US-5414845-\$ or US-6021425-\$ or US-6014760-\$).did.) and schedul\$3 and (session thread) and priority and (job event task process)	USPAT	2002/10/04 14:46
12	6	((US-5581764-\$ or US-6292889-\$ or US-6105053-\$ or US-4642758-\$ or US-6453438-\$ or US-6105067-\$ or US-6182110-\$ or US-6061807-\$ or US-5887141-\$ or US-5742829-\$ or US-5737498-\$ or US-5710885-\$ or US-5325526-\$ or US-5414845-\$ or US-6021425-\$ or US-6014760-\$).did.) and error	USPAT	2002/10/04 18:11
13	1	((US-5581764-\$ or US-6292889-\$ or US-6105053-\$ or US-4642758-\$ or US-6453438-\$ or US-6105067-\$ or US-6182110-\$ or US-6061807-\$ or US-5887141-\$ or US-5742829-\$ or US-5737498-\$ or US-5710885-\$ or US-5325526-\$ or US-5414845-\$ or US-6021425-\$ or US-6014760-\$).did.) and re\$1try\$3	USPAT	2002/10/04 18:15
14	0	((US-5581764-\$ or US-6292889-\$ or US-6105053-\$ or US-4642758-\$ or US-6453438-\$ or US-6105067-\$ or US-6182110-\$ or US-6061807-\$ or US-5887141-\$ or US-5742829-\$ or US-5737498-\$ or US-5710885-\$ or US-5325526-\$ or US-5414845-\$ or US-6021425-\$ or US-6014760-\$).did.) and (try adj again)	USPAT	2002/10/04 18:15
15	13	((US-5581764-\$ or US-6292889-\$ or US-6105053-\$ or US-4642758-\$ or US-6453438-\$ or US-6105067-\$ or US-6182110-\$ or US-6061807-\$ or US-5887141-\$ or US-5742829-\$ or US-5737498-\$ or US-5710885-\$ or US-5325526-\$ or US-5414845-\$ or US-6021425-\$ or US-6014760-\$).did.) and again	USPAT	2002/10/04 18:17
16	9	((US-5581764-\$ or US-6292889-\$ or US-6105053-\$ or US-4642758-\$ or US-6453438-\$ or US-6105067-\$ or US-6182110-\$ or US-6061807-\$ or US-5887141-\$ or US-5742829-\$ or US-5737498-\$ or US-5710885-\$ or US-5325526-\$ or US-5414845-\$ or US-6021425-\$ or US-6014760-\$).did.) and repeat\$3	USPAT	2002/10/04 18:17
-	34	(transfer\$4 distribut\$4) same job same (session thread) and repeat\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT	2002/10/03 16:09
-	1	"4342083".PN.	USPAT	2002/10/03 15:06
-	45	4642758.URPN.	USPAT	2002/10/03 15:07

-	4746	709/101,102,103,201,202,227,222,223.ccls. 370/270.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/03 16:10
-	146	(709/101,102,103,201,202,227,222,223.ccls. 370/270.ccls.) and schedul\$3.ti.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/03 16:12
-	74	709/101,102,103.ccls. and 709/201,202,227,222,223.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/03 16:44
-	282	709/103.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/03 16:45
-	188	709/103.ccls. and schedul\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/04 10:57



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- 1** EMERALDS: a small-memory real-time microkernel 100%  
A Khawar M. Zuberi , Padmanabhan Pillai , Kang G. Shin  
ACM SIGOPS Operating Systems Review , Proceedings of the 17th ACM symposium on Operating systems principles December 1999  
Volume 33 Issue 5
  
- 2** Providing deterministic delay guarantees in ATM networks 100%  
A Seok-Kyu Kweon , Kang G. Shin  
IEEE/ACM Transactions on Networking (TON) December 1998  
Volume 6 Issue 6
  
- 3** Space-efficient scheduling of parallelism with synchronization 100%  
A variables  
Guy E. Blelloch , Phillip B. Gibbons , Girija J. Narlikar , Yossi Matias  
Proceedings of the ninth annual ACM symposium on Parallel algorithms and architectures June 1997

**4** Multiclass priority fair queuing for hybrid wired/wireless quality 100%  
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Jay R. Moorman , John W. Lockwood

Proceedings of the second ACM international workshop on Wireless mobile multimedia August 1999

**5** The iSLIP scheduling algorithm for input-queued switches 100%

 Nick McKeown

IEEE/ACM Transactions on Networking (TON) April 1999

Volume 7 Issue 2

**6** FCFS: a novel scheduling policy for tightly-coupled parallel 100%  
computer systems

J. Place

Proceedings of the seventeenth annual ACM conference on  
Computer science : Computing trends in the 1990's: Computing  
trends in the 1990's February 1989

Tightly-coupled parallel computer systems are available from  
several vendors. The mechanism for process scheduling  
employed by virtually all of these systems is preemptive by job  
priority. This scheme for process scheduling consumes  
significant processor resources and can result in significant  
processor contention for the scheduling data structure. In this  
paper we show that it is possible to reduce the number of job  
priorities, and at the same time reduce the administrative  
overhead on the ...

**7** SimDS: a simulation environment for the design of distributed 99%  
database systems

 Alok R. Chaturvedi , Samir Gupta , Subhajyoti Bandyopadhyay

ACM SIGMIS Database June 1998

Volume 29 Issue 3

Design of a distributed transaction processing system is a  
complex process. The paper describes the design and  
implementation of a general purpose scalable simulation  
environment (SimDS) for designing and evaluating the  
performance of distributed transaction processing systems.  
SimDS is a distributed simulation system where each data server  
is implemented as a separate process that communicates with  
each other through user datagram protocol. The paper describes  
the features of SimDS including va ...

**8** Post-mortem black-box correctness tests for basic parallel data structures 99%  
 Phillip B. Gibbons , John L. Bruno , Steven Phillips  
Proceedings of the eleventh annual ACM symposium on Parallel algorithms and architectures June 1999

**9** Providing soft real-time QoS guarantees for Java threads 99%  
 James C. Pang , Gholamali C. Shoja , Eric G. Manning  
ISCOPE Conference on ACM 2001 Java Grande June 2001

**10** The click modular router 99%  
 Eddie Kohler , Robert Morris , Benjie Chen , John Jannotti , M. Frans Kaashoek  
ACM Transactions on Computer Systems (TOCS) August 2000  
Volume 18 Issue 3  
Clicks is a new software architecture for building flexible and configurable routers. A Click router is assembled from packet processing modules called elements. Individual elements implement simple router functions like packet classification, queuing, scheduling, and interfacing with network devices. A router configurable is a directed graph with elements at the vertices; packets flow along the edges of the graph. Several features make individual elements more powerful and ...

**11** Column: Multiple-queue backfilling scheduling with priorities 99%  
 and reservations for parallel systems  
Barry G. Lawson , Evgenia Smirni  
ACM SIGMETRICS Performance Evaluation Review March 2002  
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We describe a new, non-FCFS policy to schedule parallel jobs on systems that may be part of a computational grid. Our algorithm continuously monitors the system (i.e., intensity of incoming jobs and variability of their resource demands) and continuously adapts its scheduling parameters to sudden workload fluctuations. The proposed policy is based on backfilling which permits job rearrangement in the waiting queue. By exploiting otherwise idle processors, this rearrangement reduces fragmentation ...

**12** Efficient user-space protocol implementations with QoS 99%  
 guarantees using real-time upcalls  
R. Gopalakrishnan , Gurudatta M. Parulkar  
IEEE/ACM Transactions on Networking (TON) August 1998

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**13** A router architecture for real-time point-to-point networks 98%  
A Jennifer Rexford , John Hall , Kang G. Shin  
ACM SIGARCH Computer Architecture News , Proceedings of the 23rd annual international symposium on Computer architecture May 1996  
Volume 24 Issue 2

**14** Measures, models and measurements for time-shared computer utilities 98%  
A G. Estrin , L. Kleinrock  
Proceedings of the twenty second national conference January 1967  
Recent literature1-6has summarized many of the characteristics of time-shared systems which have been or are being built for experimental or commercial application. Fortunately system designers are not waiting for a formal theory before experimenting. Unfortunately some of the results are so diverse in effectiveness that greater emphasis on analysis must be achieved. If predictability cannot lower the risks associated with the tremendous investments required to implemen ...

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**16** Optimal stochastic scheduling in multiclass parallel queues 98%  
A Jay Sethuraman , Mark S. Squillante  
ACM SIGMETRICS Performance Evaluation Review , Proceedings of the international conference on Measurement and modeling of computer systems May 1999  
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**17** The design and performance of a real-time CORBA event service 98%  
A Timothy H. Harrison , David L. Levine , Douglas C. Schmidt  
ACM SIGPLAN Notices , Proceedings of the 1997 ACM SIGPLAN conference on Object-oriented programming systems, languages and applications October 1997  
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**18** Bus access optimization for distributed embedded systems 97%

 based on schedulability analysis

Paul Pop , Petru Eles , Zebo Peng

Proceedings of the conference on Design, automation and test in Europe January 2000

**19** The design, implementation and evaluation of SMART: a 97%

 scheduler for multimedia applications

Jason Nieh , Monica S. Lam

ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles October 1997

Volume 31 Issue 5

**20** A simulation-based study of scheduling mechanisms for a 97%

 dynamic cluster environment

Yanyong Zhang , Anand Sivasubramaniam , Jose Moreira , Hubertus Franke

Proceedings of the 14th international conference on Supercomputing May 2000

Scheduling of processes onto processors of a parallel machine has always been an important and challenging area of research.

The issue becomes even more crucial and difficult as we gradually progress to the use of off-the-shelf workstations, operating systems, and high bandwidth networks to build cost-effective clusters for demanding applications. Clusters are gaining acceptance not just in scientific applications that need supercomputing power, but also in domains such as databases, web se ...

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